

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 0.8 MHz to 20 MHz, inclusive.

Frequency tolerance: ± 50 parts per million (ppm).

Equivalent resistance: See table I.

Mode of oscillation: Fundamental.

Resonance: Series.

Operating temperature range (noncontrolled): -55°C to $+105^{\circ}\text{C}$, inclusive.

Rated drive level: 1.0 mW, maximum.

Capacitance, shunt: 7 pF, maximum.

Shock (specified pulse):

Frequency change permitted: 0.8 to 2.0 MHz: ± 10 ppm
2.0+ to 20 MHz: ± 5 ppm

Equivalent resistance change permitted: 0.8 to 2.0 MHz: ± 15 percent
2.0+ to 20 MHz: ± 10 percent

Thermal shock:

Frequency change permitted: 0.8 to 2.0 MHz: ± 10 ppm
2.0+ to 20 MHz: ± 5 ppm

Equivalent resistance change permitted: 0.8 to 2.0 MHz: ± 15 percent
2.0+ to 20 MHz: ± 10 percent

Vibration: Method 201 of MIL-STD-202.

Frequency change permitted: 0.8 to 2.0 MHz: ± 10 ppm
2.0+ to 20 MHz: ± 5 ppm

Equivalent resistance change permitted: 0.8 to 2.0 MHz: ± 15 percent
2.0+ to 20 MHz: ± 10 percent

Low temperature storage:

Resistance: See table I.

MIL-PRF-3098/4F

Temperature run:

Frequency change permitted: 0.8 to 2.0 MHz: ± 10 ppm

2.0+ to 20 MHz: ± 5 ppm

Equivalent resistance change permitted: 0.8 to 2.0 MHz: ± 15 percent

2.0+ to 20 MHz: ± 10 percent

Aging:

Frequency change permitted: ± 5 ppm.

TABLE I. Equivalent resistance.

Frequency range, inclusive	Maximum resistance	Frequency range, inclusive	Maximum resistance
<u>MHz</u>	<u>Ohms</u>	<u>MHz</u>	<u>Ohms</u>
0.80 to 0.85	520	2.12+ to 2.25	150
0.85+ to 0.90	480	2.25+ to 2.60	130
0.90+ to 1.00	440	2.60+ to 3.00	90
1.00+ to 1.12	400	3.00+ to 3.40	70
1.12+ to 1.25	380	3.40+ to 3.75	52
1.25+ to 1.37	340	3.75+ to 4.00	45
1.37+ to 1.50	300	4.00+ to 5.00	37
1.50+ to 1.62	280	5.00+ to 7.00	25
1.62+ to 1.75	250	7.00+ to 10.00	20
1.75+ to 1.87	220	10.00+ to 15.00	18
1.87+ to 2.00	190	15.00+ to 20.00	15
2.00+ to 2.12	170		

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

Army - CR

Navy - EC

Air Force - 11

DLA - CC

Preparing activity:

Army - CR

Agent:

DLA - CC

Review activities:

Army - AR, MI

Navy - AS, MC, SH

Air Force - 19

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